

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application, includes any amendments made to the claims herein, and further includes the status of each claim:

1-56. (CANCELED)

57. (Proposed Amendment) A method of using a dual head injector, the method comprising:

mounting a first syringe to the injector;

mounting a second syringe to the injector;

coupling a first section of Y-tubing to the first syringe;

coupling a second section of the Y-tubing to the second syringe, wherein the Y-tubing further comprises a third section, wherein the first, second, and third sections meet at an intersection, and wherein each of the first and second sections feed into the third section;

initiating a programmed purge protocol of the injector while the first and second syringes are mounted to the injector and while the first and second sections of the Y-tubing are coupled to the first and second syringes, respectively, wherein the first syringe comprises contrast media prior to the initiation of the programmed purge protocol, and wherein the programmed purge protocol comprises:

advancing a first plunger drive ram of the injector to move a plunger of the first syringe to a first predetermined stop point where the plunger of the first syringe stops, wherein the advancing of the first plunger drive ram purges air from the first syringe and the first section of Y-tubing and fills the first section of the Y-tubing with contrast media, and wherein the advancing of the first plunger drive ram purges air up to the intersection of the first, second, and third sections of the Y-tubing; and

advancing a second plunger drive ram of the injector to move a plunger of the second syringe to a second predetermined stop point where the plunger of the second syringe stops, wherein the advancing of the second plunger drive ram purges air from the second syringe, and the second section of the Y-tubing, the intersection of the first, second, and third sections of the Y-tubing, and the third section of the Y-tubing, wherein the advancing of the first plunger drive ram occurs before the advancing of the second plunger drive ram, and wherein the advancing of the second plunger drive ram comprises filling each of the second and third sections of the Y-tubing with saline; and

initiating a programmed injection procedure that includes injecting contrast media into the patient, wherein the programmed injection procedure occurs:

after the programmed purge protocol is completed;

while the first and second syringes are mounted to the injector; and

while the first and second sections of the Y-tubing are coupled to the first and second syringes, respectively.

58. (PREVIOUSLY PRESENTED) The method of claim 57, wherein a combination of the advancing of the first plunger drive ram and the advancing of the second plunger drive ram results in a purge of substantially all air from the first and second syringes and the Y-tubing.

5 59-67. (CANCELLED)

68. (CURRENTLY AMENDED) The method of claim ~~62~~57, wherein the ~~advancing of the second plunger ram also purges air from the third section of the Y-tubing~~ second syringe is prefilled with saline.

10 69. (PREVIOUSLY PRESENTED) The method of claim 57, wherein the first syringe is prefilled with contrast media.

70. (PREVIOUSLY PRESENTED) The method of claim 57, further comprising the step of:

filling each of the first and second syringes with fluid after the corresponding mounting step, wherein the programmed purge protocol is initiated after an entirety of the filling step has been completed.

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71. (NEW) A method of using a dual head injector, the method comprising:

mounting a first syringe to the injector;

mounting a second syringe to the injector;

coupling a first section of Y-tubing to the first syringe;

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coupling a second section of the Y-tubing to the second syringe, wherein the Y-tubing further comprises a third section, wherein the first, second, and third sections meet at an intersection, and wherein each of the first and second sections feed into the third section such that the third section is downstream of each of the first and second sections;

25 initiating a programmed purge protocol of the injector while the first and second syringes are mounted to the injector and while the first and second sections of the Y-tubing are coupled to the first and second syringes, respectively, wherein the first syringe comprises contrast media prior to the initiation of the programmed purge protocol, and wherein the programmed purge protocol comprises:

30 advancing a first plunger drive ram of the injector to move a plunger of the first syringe to a first predetermined stop point where the plunger of the first syringe stops, wherein the advancing a first plunger drive ram step comprises purging air up to a first location of the Y-tubing and directing contrast media into the Y-tubing; and

advancing a second plunger drive ram of the injector to move a plunger of the second syringe to a second predetermined stop point where the plunger of the second syringe stops, wherein the advancing a second plunger drive ram step comprises purging air up to a second location of the Y-tubing and directing saline into the Y-

tubing, wherein the second location is downstream of the first location, and wherein the advancing of the first plunger drive ram occurs before the advancing of the second plunger drive ram; and

initiating a programmed injection procedure that includes injecting contrast media into the patient, wherein the programmed injection procedure occurs:

- 5 after the programmed purge protocol is completed;
- while the first and second syringes are mounted to the injector; and
- while the first and second sections of the Y-tubing are coupled to the first and second syringes, respectively.

10 72. (NEW) The method of claim 71, wherein the advancing of the first plunger ram purges air up to the intersection of the first, second, and third sections of the Y-tubing.

73. (NEW) The method of claim 72, wherein the advancing of the second plunger drive ram purges air from the second syringe, the second section of the Y-tubing, the intersection of the first, second, and third sections of the Y-tubing, and the third section of the Y-tubing.

74. (NEW) The method of claim 71, wherein the advancing of the second plunger drive ram purges air from the second syringe, the second section of the Y-tubing, the intersection of the first, second, and third sections of the Y-tubing, and the third section of the Y-tubing.

20 75. (NEW) The method of claim 71, wherein the advancing of the first plunger drive ram comprises filling the first section of the Y-tubing with contrast media.

76. (NEW) The method of claim 75, wherein the advancing of the second plunger drive ram comprises filling each of the second and third sections of the Y-tubing with saline.

77. (NEW) The method of claim 71, wherein the advancing of the second plunger drive ram comprises filling each of the second and third sections of the Y-tubing with saline.

30 78. (NEW) The method of claim 71, wherein the first syringe is prefilled with contrast media.

79. (NEW) The method of claim 71, wherein the second syringe is prefilled with saline.

80. (NEW) The method of claim 71, further comprising the step of:

filling each of the first and second syringes with fluid after the corresponding mounting step, wherein the programmed purge protocol is initiated after an entirety of the filling step has been completed.

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